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Full text available: pdf(1.01 MB) Additional Information: full citation, references, index terms

2 [Dimension-independent modeling with simplicial complexes](#)
A. Paoluzzi, F. Bernardini, C. Cattani, V. Ferrucci
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3 [Machine interpretation of CAD data for manufacturing applications](#)
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Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

5 [Geometric range searching](#)
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Full text available: pdf(3.82 MB) Additional Information: full citation, abstract, references, citations, index terms, review

6 [Realm-based spatial data types: the ROSE algebra](#)
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7 [Motion planning in the presence of moving obstacles](#)
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 Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, citations, index terms
- ¹¹ [Topological queries in spatial databases](#)
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 Full text available: pdf(1.42 MB) Additional Information: full citation, references, citations, index terms
- ¹³ [Querying spatial databases via topological invariants](#)
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- ¹⁴ [Hierarchical representations of collections of small rectangles](#)
 Hanan Samet
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- ¹⁷ [Multiresolution compression and reconstruction](#)
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[Publisher Site](#)
- ¹⁸ [An expressive language for linear spatial database queries](#)
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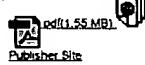
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 the approximations of min/max functions used for Boolean operations. Constant-radius blends [9] are
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 object [5]In the three-dimensional case the boundary of such an object is a so-called "implicit
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 of such as gradually changing shades, or when the regions assume some broad range of gray shades. This
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ctrgate.kaist.ac.kr/~wksong/pub/.seal96/seal96.ps.gz

Efficient representations and techniques for computing.. - Krishnan, Manocha (1996) (Correct) (3 citations)
 We present efficient and accurate algorithms for Boolean combinations of solids composed of sculptured
 are used to partition the patches into different regions. Only a few of them are retained after the
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www.research.att.com/~krishnas/MY_PAPERS/CSG96.ps.gz

Polyhedral Tracings and their Convolution - Basch, Guibas, Ramkumar, Ramshaw (1996) (Correct) (3 citations)
 calculus of operations that generalizes standard boolean operations on shapes such as union,
 us information about the topology of the collision region between the barrier and the robot (its
 in two dimensions. They augmented the standard boundary representation of planar shapes via polygons or
robotics.stanford.edu/~ramkumar/papers/3d-conv.ps.gz

Ontologies for Plane, Polygonal Mereotopology - Pratt, Lemon (1997) (Correct) (3 citations)
 plane to be polygons. It turns out that P forms a Boolean algebra. In this Boolean algebra, the product of
 obtained by adopting a spatial ontology in which regions, not points, are the primitive entities. This
 that part of the plane lying outside it and its boundary and the sum of two polygons is the polygon
www.cs.man.ac.uk/ai/oliver/..Papers/iep/mereogeometry/mereo_revised.ps.Z

BOOLE: A System to Compute Boolean Combinations of.. - Krishnan, Narkhede.. (1995) (Correct) (1 citation)
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 are used to partition the patches into different regions. Only a few of them are retained after the set
 are constructive solid geometry (CSG) and boundary representations (B-rep) Both these
ftp.cs.unc.edu/pub/users/geom/papers/INTERSECT/boole.ps.gz

Representation, Boundary Computation and Fast Display of .. - Krishnan, Kumar, Manocha (Correct)
 We present efficient and accurate algorithms for Boolean combinations of solids composed of sculptured
 not allow self intersecting trimming curves. The region of the surface that is not trimmed out is also
 Representation, Boundary Computation and Fast Display of CSG Models with
www.research.att.com/~krishnas/MY_PAPERS/IFIP96.ps.gz

Formalizing Commonsense Topology: The - Calculus Nicholas Mark (Correct)
 other. Next, we establish that if an 1 Quasi-Boolean because there is no 'zero' region. Extent
 are not: every surface has two sides if two regions occupy the same part of space, they include the
 relations (e.g. partial overlap, contact at the boundary) between specific spatially extended entities,
agora.leeds.ac.uk/scs/doc/srg/AlandMsymp.ps

Dimension-Independent BSP (2): Boundary to Interior Mapping - Baldazzi, Paoluzzi (1997) (Correct)
 point-set may be implicitly represented as the Boolean XOR of unbounded polyhedral "stripes" of

is shot from either the interior or the exterior **region**. This result is actually dimension-independent,
00146 Roma, Italy Dimension-Independent BSP (2)B **oundary** to Interior Mapping Claudio Baldazzi Alberto
www.inf.uniroma3.it/research/tech-rep/inf-29-97.ps

Dimension-Independent BSP (1): Section and Interior to.. - Baldazzi, Paoluzzi (1997) (Correct)
representations of solids, and defined regularized **B** **olean** operations by merging BSP trees [7]
is associated to a convex and possibly unbounded **region** of E d denoted by R The two sons of an
BSP (1)Section and Interior to **Boundary** Mapping Claudio Baldazzi y Alberto Paoluzzi
www.inf.uniroma3.it/research/tech-rep/inf-26-97.ps

From Polyline to Polygon via XOR tree - Baldazzi, Paoluzzi (1996) (Correct)
that each such polygon can be expressed as the **Boolean** XOR of unbounded quadrilateral stripes,
where each leave node is an unbounded plane **region** and each non-leave node is a regularized XOR
and solution "Given a representation of the **boundary** of a plane polygon, compute both an implicit and
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Bijective Dimension-Independent Boundary to Interior.. - Baldazzi, Paoluzzi (1996) (Correct)
representations of solids, and defined regularized **Boolean** operations by merging BSP trees [7]
tree represents a convex and possibly unbounded **region** of E d denoted by R The two sons of an
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Surface/surface Intersections: A Three States.. - S. Foufou, J.M. Brun, A.. (Correct)
the first point in the context of solids algebra (**Boolean** operators) for which it is of utmost importance
by Sederberg and Nishita [SN90] and defined as the **region** between two parallel lines which bounds a B'ezier
fuzzy face, a fuzzy line is calculated for each **boundary** curve of the surface. A fuzzy face (figure 3) is
bat710.univ-lyon1.fr/~foufou/papers_ps/london.ps.Z

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[Querying Spatial Databases via Topological Invariants](#) - Segoufin, Vianu (1998) (Correct) (8 citations)
 of two sets, interior, exterior, **boundary**, and **Boolean** connectives. The 4-intersection invariant was
 ptine queries on topological invariants if the regions are connected, fixpoint expresses all ptine
 disjointness of two sets, interior, exterior, **boundary**, and **Boolean** connectives. The 4-intersection
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[Discrete Ray Tracing](#) - Yagel, Cohen, Kaufman (1992) (Correct) (7 citations)
 approach delays the computation of the **Boolean** operations until the rendering stage. However,
 consists of a list of all objects residing in that **region** of the world while a voxel t maintains
 achieved b onverting the CSG-tree into a **boundary** representation (B-rep) in an extremely time -p
www.cis.ohio-state.edu/volviz/Papers/1992/rrt.ps.gz

[Space Decompositions: Theory and Practice](#) - Paulo Cezar Pinto (Correct)
 partition. It is easy to see that L is a finite **Boolean** Algebra under the usual set operations [and
 is, one that has the minimum number of decomposing **regions**. The existence of a minimal decomposition might
 of the topology of each decomposing **region**. **Boundary** condition. **Boundary** conditions are imposed in
www.visgraf.ima.br/RefBib/Data/PS_PDF/luizelho92/ms92sd.ps.gz

[Topological Operations Transparent for Users](#) - Winter (2000) (Correct)
 language for CORBA (OMG 1999)such as: **Boolean** touches (in Geometry other)This interface of
 model, the topological relation touch between two **regions** is defined by intersecting boundaries, with no
 model without a concept of a (one-dimensional) **boundary**, which does not exist explicitly in raster
ftp.geoinfo.tuwien.ac.at/winter/winter00transparent.pdf

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 representations of solids, and defined regularized **Boolean** operations by merging BSP trees [7]
 is associated to a convex and possibly unbounded **region** of E d denoted by R The two sons of an
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 that each such polygon can be expressed as the **Boolean** XOR of unbounded quadrilateral stripes,
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 representations of solids, and defined regularized **Boolean** operations by merging BSP trees [7]
 tree represents a convex and possibly unbounded **region** of E d denoted by R The two sons of an
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[Efficient Rendering of Trimmed NURBS Surfaces](#) - Kumar, Manocha (1995) (Correct)
 obtained after surface **intersection** or other **boolean** operations. The problem of rendering curved
 traces the trimming curves to compute the trimmed **regions** of each **cell**. This is based on tracing trimming
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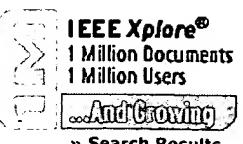


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Kahng, A.B.; Robins, G.; Singh, A.; Zelikovsky, A.;
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on , Volume: 18 , Issue: 4 , April 1999
Pages:445 - 462

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Plamondon, R.; Privitera, C.M.;
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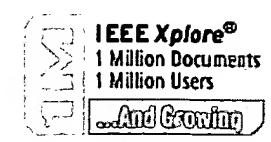
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